

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2002206468  
PUBLICATION DATE : 26-07-02

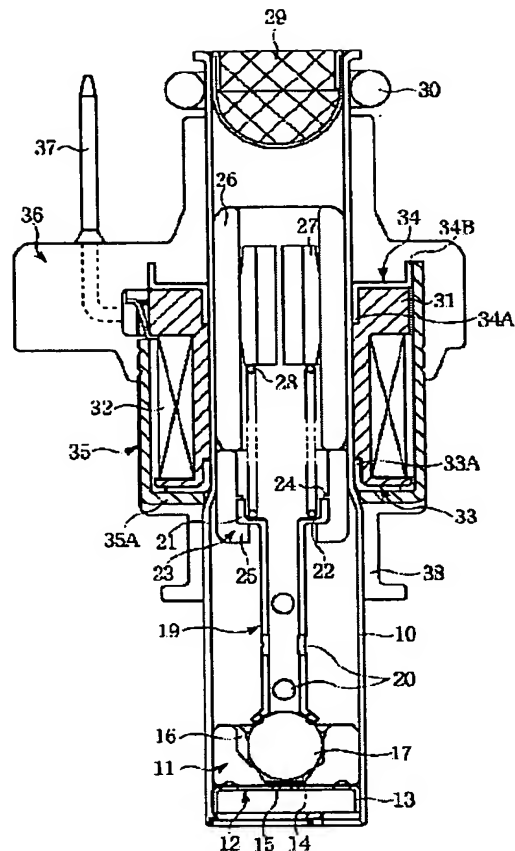
APPLICATION DATE : 12-01-01  
APPLICATION NUMBER : 2001004704

APPLICANT : AISAN IND CO LTD;

INVENTOR : KOYANAGI KAZUAKI;

INT.CL. : F02M 51/06 F02M 51/08

TITLE : SOLENOID FUEL INJECTION VALVE



ABSTRACT : PROBLEM TO BE SOLVED: To prevent deterioration in the accuracy of a magnetic pipe, and lower the manufacturing cost of a solenoid fuel injection valve.

SOLUTION: An injection port 14 is opened and closed by a valve element 17, and an armature 23 is connected to the rear end of a movable body 19, to which the valve element 17 is fixed, and a fixed core 26 is arranged inside the magnetic pipe 10, at a position opposite to a rear end surface of the armature 23. The valve element 17 is energized in the closing direction by a coil spring 28, and a solenoid coil 32 is arranged outside the magnetic pipe 10. The magnetic pipe 10 as a whole is formed of a magnetic material.

COPYRIGHT: (C)2002,JPO



## ABSTRACT / ZUSAMMENFASSUNG / ABREGE

03104649.3

An electromagnetic fuel injector (1) for an internal combustion engine, comprising a main body (4) having a central cylindrical cavity (5) adapted to act as a duct for the fuel, a valve (6) which is disposed to close an end of the central cylindrical cavity (5) and is provided with a moving shutter (9), an electromagnetic actuator (13) which is provided with a coil (15), a fixed armature (17), and a moving armature (18) mechanically connected to the shutter (9) and adapted to be magnetically attracted by the fixed armature (17) against the action of a spring (19), and a monolithic tubular member (24) which is disposed coaxially within the central cylindrical cavity (5) and houses the fixed armature (17) and the moving armature (18).